

Characterisation of Upper Cretaceous geological formations in the south-central Pyrenees based on calcareous nannofossils

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The evolution of the Upper Cretaceous basin in the south-central Pyrenees is especially interesting because of how the various facies reveal their relation to the alpine tectonics that created the Pyrenees Mountains (Rosell et al., 2009; Mencos et al., 2015). The Flamicell-Pallaresa section is located in the western part of the south-central Pyrenees and presents a fairly complete sequence of Upper Cretaceous sediments, which range from the Cenomanian to the latest Campanian–Maastrichtian. Seven geological formations occur in this section, six of them marine deposits (Caus et al., 1981). Samples were collected from all of the marine formations, and a standard method was used for their preparation and examination in the light microscope. This analysis of the calcareous nannofossils has improved our knowledge of the chronology and palaeoecology of these formations, and thus has aided in an understanding of the evolution of the Upper Cretaceous basin in this region.

References

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